

தற்பொன் ஹோர்ட்டின்றி விலு பணமாலை மனி கால்யா
அதை மாடுமே ஸிக்ரிகூக்டுத்து. (தற்பொன் ஹோர்
தபாலித் துவாஸுமுத்துவர் தபால் சார்ஜ் ` 100 பிரதேகா
அடத்தேஷன்டாள்).

தினித் ஹோர் ததித் ஸமர்ப்பிக்குத் தற்பொன் ஸு
கஶ்கைப்பும் ` 100-ன்றி கேரத முடிப்புத்ததித் தழுராகவின்
தினித் ஹோர்த்திலுத்து கரார் குடி ஸமர்ப்பிக்களே.

தற்பொன்ஸிளையை ஸலை செய்யேங் ஸாயந்தைதையை
ஸாப்பிசிசு விதை விவரணை பிவுத்திஸமதத் து
அத்துமீனித் தேவித் தையைசிசுத் தையாவுத்தாள்.
கேரத ஸர்க்காரின்றி தற்பொன் ஸுக்கை ஸாப்பிசிசு ஏல்லா
தியமண்தும் பட்டண்தும் து தற்பொன்ஸிளை ஸாயகமாயிர்க்கு
ந்தாள்.

No. PT (1) 298/2014.

23rd December 2014.

Sealed superscribed tenders are invited for the "Supply of High Performance Liquid Chromatography" for the use in State Pesticide Testing Laboratory, Parottukonam, Nalanchira under the Scheme on Modernisation of Department Laboratories 2014-15.

Tender No.— PT (1) 298/2014.

Estimated Cost—` 15,00,000.

Cost of tender form:

Original—` 2,300 + 5% VAT

Duplicate—` 1,200 + 5% VAT

Date and time upto which tender forms are sold—
22-1-2015, 4 p.m.

Last date and time of receipt of tender—23-1-2015,
2 p.m.

Date and time of opening of tender—23-1-2015,
2.30 p.m.

E. M. D.—1% of the total cost subject to a minimum of ` 1,500 (ie., even if the 1% of the amount of tender falls below ` 1,500)—Demand Draft drawn in favour of Deputy Director of Agriculture Cum- Senior Chemist payable at SBT, Vellayambalam, Thiruvananthapuram.

Amount of Security—5% of the total value of the contract rounded to nearest Rupee.

Time and place of supply—Within 30 days of receipt of supply order at S. P. T. Lab Parottukonam.

Address to which tender to be submitted—Deputy Director of Agriculture Cum-Senior Chemist, State Pesticide Testing Laboratory Parottukonam, Nalanchira P. O., Thiruvananthapuram.-15.

Date upto which the rates are to remain same for acceptance—31-3-2015.

Tender form, special condition and further details if any required can be had from the office of the undersigned during office hours on all working days. The price of tender form will be received only by cash remittance or Money Orders. Cheques, drafts and Postage Stamps etc. will not be accepted.

The submission of tender should be strictly in accordance with special condition and as per rules and regulations prescribed by the Government.

Detailed Specifications for High Performance Liquid Chromatography (HPLC) with UV-Vis detector

The HPLC must be a microprocessor controlled, with extensive self diagnostics and can be operated by an external PC through chromatography software besides the following configuration and specifications.

Sl. No.	Criteria (1)	Details (2)	(3)
1	The Pump	<ul style="list-style-type: none">• with binary solvent delivery pump• Should deliver constant and pulse free solvent ranging from 0.01ml to 10.0ml/min with a precision of 0.075% RSD or better.• The effective delay volume should be less than 700 micro liters independent of back pressure.• Should meet a flow accuracy of ± 1 % or 10 ul/min, whichever is greater.• should have a pressure range of 0 to 5000 psi or more for entire flow range• the solvent delivery should provide a retention time reproducibility of less than 0.3 RSD• should have the ability to maintain the custom defined/ programmed solvent com• Should have a composition accuracy of ± 0.5% absolute, independent of backpressure.• Should have the facility to calibrate the flow and readjust the real time flow values.• Should have the mechanism for auto purging .• Should have the facility to monitor the pump status like flow, pressure etc.	

(1)	(2)	(3)	(1)	(2)	(3)
2	In line degasser	An integrated degasser to de gas in line of all the four solvents be supplied which works continuously and efficiently.	8	Vacuum pump	Vacuum pump must be a dry/ PTFE coated diaphragm based, operational under 220V/ 50Hz and constructed with chemical resistant materials.
3	The Detector: UV-Vis. Detector	<ul style="list-style-type: none"> • Should have a wave length range of 190-700 nm • Should have a band width of 2 nm or better • Should have a wave length accuracy of 1 nm • Should have a very good reproducibility of absorbance at least 0.0001 or better • Should have a linearity of 5% at 1.5 AU propylparaben, at 257 nm. • Should have a base line Noise less than 5.0 x 10⁻⁵ AU, 230 nm. • Should have a drift less than ± 5 x 10⁻⁴ AU/hr/° C, 230 nm. • Should have the lamp optimization facility • Should have a taper slit flow cell. • Should have self diagnostics to check the system function and calibration • Should have an easy operation to calibrate the system • Should be able to function individual or through the chromatography software operated externally through a PC 	9	Sample clarification Kit	Should have an output of vacuum of 800 mm Hg, or better Should have pressure gauge/ monitor Two sets of SS sample clarification kits along with filter membranes and other accessories should be supplied
4	Columns	1. C ₁₈ column 250mm x 4.6mm id, 10mic 1 No. 2. C ₈ column 250mm x 4.6mm id, 5mic 1 No.	10	Data Handling Software and PC	<p>The personal computer with latest processor/configuration with LCD monitor and Laser jet Printer should be supplied along with the instrument. The latest software which is compatible with the chromatography software should be supplied. Original windows latest software which is compatible with the chromatography software be supplied with the system.</p> <p>The chromatography software should be of latest of its version and be able to collect the data from two Detectors simultaneously.</p> <p>The software should facilitate easy method building, data integration, Quantization in % age and custom report generation.</p> <p>The software should facilitate manual as well as auto integration of the data.</p> <p>The software should have all the features required for audit trail under GLP/GMP with a password locking facility.</p> <p>The software should have a real time display of the chromatogram and the process sample details.</p>
5	Guard Column	Suitable guard column sets (2 No's) with C ¹⁸ inserts should be supplied along with the instrument	11	Delivery and Installation	State Pesticide Testing Laboratory, Parottukonam, Nalanchira P. O., Thiruvananthapuram
6	Injector Port	Rheodyne fixed loop injector assembly with trigger type should supplied along with the instrument. Should be provided with variable pre calibrated sample loops with maintenance kit	A	List of the users of offered system with accessories in South India should be provided	
7	Solvent filtration kit	All glass solvent filtration apparatus with suitable filter membranes to filter aqueous and organic solvents should be supplied	B	Should not be of obsolete models. Availability of spares including optic and electronic components should be guaranteed for a minimum period of ten years	

(1)	(2)	(3)
C	All supplied system should be from the same vendor and warranty applicable for all system inclusive of accessories	
D	Installation, commissioning and training on routine maintenance and operation/analytical support should be provided by factory trained application Chemist and Engineer.	
E	Relevant catalogue with specifications of the offered models to be submitted along with the tender documents.	
F	All necessary operation manual and maintenance manual to be provided in hard and soft copies along with the equipments.	
G	A detailed list of the model quoted satisfying the requisites Tender specifications should be supplied in compliance format.	
H	The rate quoted should include all expenditure including taxes, installation, Transport, loading and unloading at State Pesticide Testing Laboratory, TVPM.	
I	Required demonstrations and trainings should be given free of cost in the warranty period at State Pesticide Testing Laboratory, Thiruvananthapuram.	
J	AMC after warranty period for 5 years and separate comprehensive Maintenance Contract (CMC) for 5 years should be quoted.	

Special Conditions

Part of Tender Notice No. PT(1) 298/2014,
dated 23-12-2014

(To be returned duly signed along with tender forms)

1. The materials supplied should be in strict conformity with the specifications given in the list of articles appended with tender notice.
2. Quantity shown in the tender notice is approximate. The successful tenderer is bound to supply the actual numbers shown in the supply order (which may be more or less than the published quantity) during the contract period at the accepted rates and conditions.

3. The rates quoted should be inclusive of all taxes (if applicable), Loading, unloading charges etc. for delivery at State Pesticide Testing Laboratory, and cost of installation of the equipment (without incurring any extra cost for this department).
4. Tender should be submitted in the prescribed form along with an agreement in Kerala Stamp Paper worth ` 100 (One hundred only).
5. Special condition and supply order will form part of the agreement and special condition should be returned with tender form duly signed in proper places by the tenderer.
6. Before supplying commences, the successful tenderer should execute an agreement in Kerala Stamp Paper worth ` 100 (One hundred only) in prescribed form. He will also have to deposit a security of 1% of tendered amount which is inclusive of Earnest Money Deposit furnished. The security should be in the form of Demand Draft drawn in favour of Deputy Director of Agriculture cum Senior Chemist, State Pesticide Testing Lab, Parottukonam, Trivandrum Payable at State Bank of Travancore, Vellayambalam, Trivandrum.
7. The rates quoted should be firm up to 31-3-2015 and contract is valid up to 31-3-2015.
8. The supply should be completed within 30 days of receipt of supply order and claim settled at the latest by 31-3-2015.
9. Undersigned is at liberty to test and satisfy the quality and quantity of supplied articles and the contractor is liable to replace any item damaged during such testing at his cost.
10. The contractor or his agent should be present at the time of opening of tenders.
11. The contractor or his agent should be present at the time of supply and should entrust the articles to the officers concerned at this laboratory. The transportation, loading and unloading etc. should be met by the contractor.
12. On completion of supply, the invoice in triplicate should be drawn in favour of Deputy Director of Agriculture cum Senior Chemist, State Pesticide Testing Laboratory, Thiruvananthapuram for effecting payment.
13. Separate bills should be sent for each order.
14. The payment in respect of equipments will be released only after satisfactory installation and demonstration of instruments by firm.
15. In case of any dispute, the decision of Deputy Director of Agriculture Cum Senior Chemist will be final.
16. In case the date prescribed for opening of tender falls as a holiday it will be postponed to the very next working day without any further publicity by notices.

17. Violation of any rules/special conditions/directions of supply order by contractor will lead to rejection of tender.
18. Deputy Director of Agriculture cum Senior Chemist reserves the right to reject any tenders/cancel the purchase of any item/at his discretion without assigning any reason.
19. This order is placed on behalf of the Govt. of Kerala and the C.S.T. declaration in 'D' Form will be issued by supplied Officer, wherever necessary.

Signature of Contractor

(Name of the Firm Seal)

Office of the Deputy Director,
of Agriculture,

State Pesticides Testing Laboratory, (Sd.)
Parottukonam, Nalanchira, *Deputy Director of Agriculture*
Thiruvananthapuram. *Cum Senior Chemist.*